

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

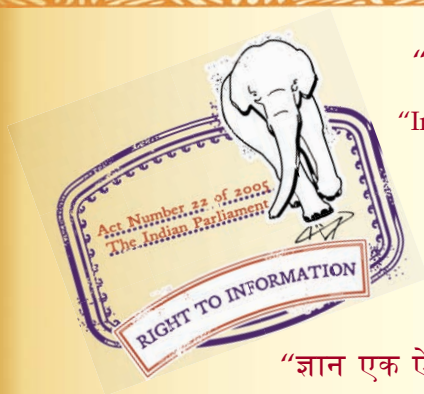
“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 4586-1-7 (1987): Dimensions of spindles and mounting arrangements for spindle operated electronic components, Part 1: Spindles, Section 7: Concentric spindle [LITD 3: Electromechanical COmponents and Mechanical Structures for Electronic Equipment]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

BLANK PAGE



Indian Standard

DIMENSIONS OF SPINDLES AND MOUNTING
ARRANGEMENTS FOR SPINDLE OPERATED
ELECTRONIC COMPONENTS

PART 1 SPINDLES

Section 7 Concentric Spindle

(Second Revision)

0. General — This standard (Part 1/Sec 7) shall be read in conjunction with IS : 4586 (Part 1/Sec 1)- 1987 'Dimensions of spindles and mounting arrangements for spindle operated electronic components: Part 1 Spindles, Section 1 General and definitions (second revision)'.

1. Scope — Covers dimensions of concentric spindles.

2. Dimensions — See Tables 1 and 1A.

Adopted 30 November 1987

© July 1988, BIS

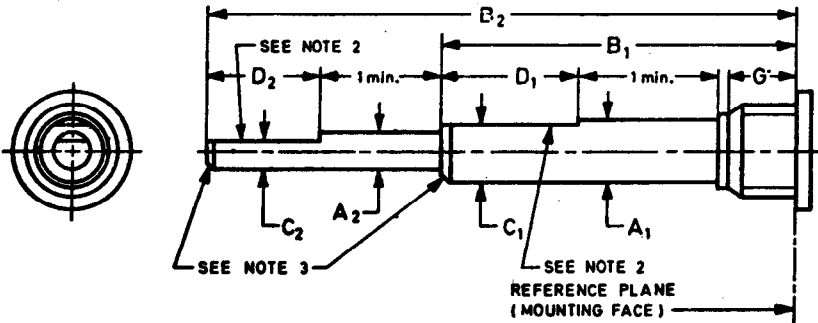
Gr 2

Electromechanical Components for Electronic Equipment Sectional Committee, LTDC 7 [Ref : Doc : LTDC 7 (904)]

TABLE 1 DIMENSIONS OF CONCENTRIC SPINDLE

(Clause 2)

All dimensions in millimetres.



Dimension A_1 $h 11^*$	Dimension A_2 $h 11^*$	Dimension B_1 (see Note 1)								Dimension B_1	Dimension C_1	Dimension C_2		Dimension D_1	Dimension D_2	Dimension G, Min (see Note 4)
		10 ± 0.5	16 ± 0.5	20 ± 0.5	32 ± 0.5	34.5 ± 0.5	40 ± 1	50 ± 1	63 ± 1			Screwed Knob	Push-on Knob			
$4^{+0}_{-0.075}$	$2^{+0}_{-0.06}$	↑	↑	↑	↑	↑	↑			$B_1 + 10$ or $B_1 + 1.5$ Tolerance ± 1	Not appli- cable	Not appli- cable	Not appli- cable	From 4 in increments of 2, Tolerance ± 0.5	From 4 in increments of 2, Tolerance ± 0.5	No Bush 4 5 7 10
$6^{+0}_{-0.075}$	$3^{+0}_{-0.06}$							↑	↑		$5.3^{+0}_{-0.2}$	$2.5^{+0}_{-0.1}$	$2^{+0}_{-0.1}$			
$6^{+0}_{-0.075}$	$4^{+0}_{-0.075}$										Not appli- cable	$3.5^{+0}_{-0.1}$	$3^{+0}_{-0.1}$			
$6.35^{+0.03}_{-0.08}$	$3.17^{+0.03}_{-0.06}$	↓									5.54 ± 0.13	2.36 ± 0.06	2.08 ± 0.6			
$6.35^{+0.03}_{-0.08}$	$4.76^{+0.03}_{-0.06}$										$6.02^{+0}_{-0.08}$	3.96 ± 0.06	3.96 ± 0.06			
$8^{+0}_{-0.09}$	$4^{+0}_{-0.075}$										$7^{+0}_{-0.2}$	$3.5^{+0}_{-0.1}$	$3^{+0}_{-0.1}$			
$10^{+0}_{-0.09}$	$4^{+0}_{-0.075}$										$9^{+0}_{-0.2}$	$3.5^{+0}_{-0.1}$	$3^{+0}_{-0.1}$			
$10^{+0}_{-0.09}$	$6^{+0}_{-0.075}$		↓	↓	↓	↓	↓	↓	↓		$9^{+0}_{-0.02}$	$5^{+0}_{-0.2}$	$4^{+0}_{-0.1}$			

Note 1 — If intermediate values are required, they should preferably be chosen from the R20 series (mm) [see IS : 1076-1967 Preferred numbers (first revision)].

Note 2 — Flat to dimensions C and D are optional as shown in the table.

Note 3 — Chamfer at 40/50° or a radius for a depth of between 5 and 10 percent of dimension A_1 and A_2 .

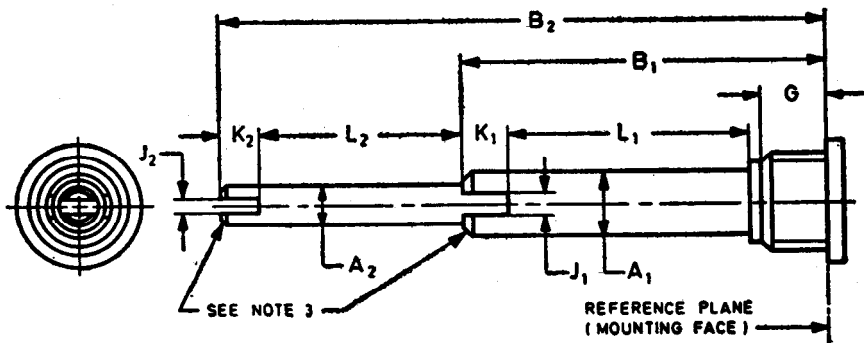
Note 4 — Fixing of bush may be done by pressing a 'C' washer in the groove cut in the shaft to a depth of 1 to 1.5 mm.

Note 5 — Dimensions apply to spindles after suitable finish.

*IS : 919 (Part 1)-1963 'Recommendations for limits and fits for engineering : Part 1 General engineering (first revision) '.

TABLE 1A DIMENSIONS OF ALTERNATIVE CONCENTRIC SPINDLES
(Clause 2)

All dimensions in millimetres.



Dimension A_1 $h\ 11^*$	Dimension A_2 $h\ 11^*$	Dimension B_1 (see Note 1)	Dimension B_2	Dimension G , Min (see Note 5)	Dimension J_1	Dimension J_2	Dimension K_1 (see Note 2)	Dimension K_2 (see Note 4)
$6^{+0}_{-0.075}$	$4^{+0}_{-0.075}$	10 ± 0.5	$B_1 + 10$ or $B_1 \pm 12.5$, Tolerance ± 1	No Bush 4 5 7 10	3 ± 0.2	1 ± 0.2	6 ± 0.5 12 ± 0.5	10 ± 0.5
		16 ± 0.5						
		20 ± 0.5						
		32 ± 0.5						
		40 ± 1.0						
		40 ± 1.0						
		50 ± 1.0						
		63 ± 1.0						
		80 ± 1.0						

Note 1 — If intermediate values are required, they should preferably be chosen from the R20 series (mm) [see IS : 1076-1967 Preferred numbers (first revision)].

Note 2 — Subject to a minimum of 1 mm for dimension L_1 .

Note 3 — Chamfer at 40/50° or a radius for a depth of between 5 and 10 percent of dimensions A_1 and A_2 .

Note 4 — Subject to a minimum of 1 mm for dimension L_2 .

Note 5 — Fixing of bush may be done by pressing a 'C' washer in the groove cut in the shaft to a depth of 1 to 1.5 mm.

Note 6 — Dimension apply to spindles after suitable finish.

*IS : 919 (Part 1)-1963 Recommendations for limits and fits for engineering : Part 1 General engineering (first revision).